I Speak BASIC to My Commodore 64

Aubrey B. Jones, Jr.

EXAM SET

CONTENTS

Part	Topic Covered	Quiz #
1	Hardware (The Machines)	1
2	Software (The "Program")	2
3	Your First Computer Program	3
4	More Programming Tools	4
5	Scientific Notation	Review Quiz #1
6	Relational Operators and IF-THEN/GOTO Statements	6
7	The INPUT Statement	7
8	Using the Calculator Mode	
9	Using the Cassette Recorder	Review Quiz #2
10	Using FOR-NEXT STEP Statements	10
11	Reading Data	11
12	Video Display Graphics	12
13	Arrays	13
14	INT(X), ABS(X), and RND(X) Functions	14
15	Subroutines	15

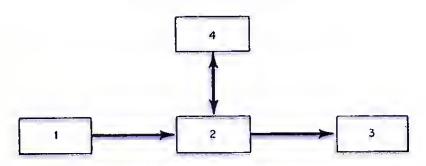
HAYDEN

Commodore 64 is a trademark of Commodore Business Machines, Inc., and is not affiliated with Hayden Book Co., Inc.

Copyright © 1984 by Hayden Book Company, Inc. All rights reserved.

6182-X

QUIZ #1 Hardware (the Machines)



I. Above is a BOX DIAGRAM of a computer. Place the correct number beside the words that the boxes represent.

Memory Unit
Output Unit
Processor Unit
Input Unit

II. What is the major difference between a computer and a person?

III. Match Column A with Column B.

- 1. ___ Keyboard
- Microprocessor
 Tape Recorder
- 4. ____ Software
- 5. ____ Input Unit
- 6. ____ Output Unit
- 7. ____ Memory
- 8. ____ Processor
- 9. ____ Hardware
- 10. ____ !/9
- 11. ____ Display
- 12. ____ Ø's and 1's
- 13. ____ RAM
- 14. ____ Volatile Memory
- 15. ____ ROM

В

- A. Binary conditions
- B. Computer and computer-related equipment—the machines
- C. Interprets, controls, and/or calculates
- D. An input device
- E. A very small processor that is part of a microcomputer
- F. Video output device
- G. The instructions or computer program
- H. Stores or remembers information
- Means input/output
- J. An input/output device
- K. Results and answers
- L. Data and instructions
- M. Read Only Memory
- N. Random Access Memory
- Information stored in memory is destroyed if power fails

Software (the "Program")

1.,	the: (hardware, software) but are also known as the (machines, program).
2.,	The set of instructions for the computer is called the (hardware, software) and is also known as the (machines, program)
3.	Computers speak in language.
4.	Machine language is a form of binary coding where binary is a word meaning
5.	The binary codes can be either a or
6.	The language you use to write programs for the Commodore 64 is called
7.	The part of the computer that translates BASIC instructions into machine code is called the
8.	The computer will start executing a program at the (lowest, highest) line number unless told to start elsewhere.
9.	When using line numbers, we normally use some multiple of 10 to leave space for
O.	To program you must learn the first.

Your First Computer Program

1. To clear memory of any program that may be stored there, the command to use is a. STOP b. SHIFT c. NEW d. RUN	10. A program statement that is never printed out but helps the programmer to understand the program when he/she reviews it
2. A command that tells the computer to execute the program beginning at the lowest-numbered line is a. NEW b. RUN c. LIST d. PRINT	a. 10 PRINT c. 10 REM b. 10 NEW d. 10 MEM
3. A command that tells the computer to display the program at Line 30 is a. LIST 30 c. RUN 30 b. PRINT 30 d. STOP 30 4. A command that tells the computer to display all	11. Pressing this special function key tells the computer to "look at" or to enter what you have just typed a. STOP c. RETURN b. SHIFT d. PRINT 12. The first part of any BASIC program statement:
of your program lines starting with the lowest number is a. RUN b. NEW c. LIST d. END	a. Key Word c. Enter b. Line Number d. Variable
 5. A command that tells the computer to display all program lines starting at Line 30 to, and including, Line 50 is a. RUN 30-50 c. PRINT 30-50 b. NEW 30-50 d. LIST 30-50 6. If you wish to insert a space between printed lines, you would use the following program statement 	 13. A button on the keyboard that lets you restart your computer if it "freezes up" on you (i.e., if you cannot type anything) is a. CTRL c. RESTORE b. CLR/HOME d. RETURN 14. Some keys have two characters or symbols. The
a. 15 PRINT SPACE c. 15 PRINT b. 15 SPACE d. 15 LIST	key that lets you get the upper characters is a. CTRL c. Space
7. If you wish to print the word "Leeds," you would use a. 10 PRINT LEEDS c. 10 PRINT "LEEDS"	b. SHIFT d. RESTORE
 b. 10 LIST LEEDS d. 10 LIST "LEEDS". 8. The statement that will print the value of the variable A 	15. A special key stops execution. You may type CONT and press RETURN if you wish to continue a. SHIFT C. Space
a. 10 LIST A c. 10 PRINT A d. 10 PRINT "A"	b. CTRL d. RUN/STOP
9. The last statement of most programs (optional in Commodore 64) that ends program execution is a, 99 HALT c. 99 HOME b. 99 STOP d. 99 END	16. Write a program to print your name, address, and telephone number on separate lines. Also, put a space between your name, address, and telephone number when printed.

More Programming Tools

î.	List the order of math	ematical opera	tions. That is,
div	ou have addition, sub ision, which comes firs	iraction, muitip st?	oneation, and
Mi.	List the math symbols	Add	
Div	ide	Subtract -	
	Exponentiate (raise to		
3. ma	If there are parenthe thematical operation a	ses, the comp	uter starts its
a.	Outermost parenthese	s c. Leftmost p	
	Innermost parentheses		
	Make sure that every parenthes		has a match-
a.	Inner	c. Right	
b.	Outer	d. Left	
	Use parentheses arou	und operations	you want to
	form Last	C. First	
b. Í	Second	d. Third	
6. a. b.	A mathematical opera Right and goes left Left and goes right	ation usually st c. Middle and d. Middle and	arts from the I goes right I goes left
	Mark T or F next to	the 'variables	that can be
	ed with VIC BASIC.	41	(H
1 4	P4	Q1	
	The Ut		
	Apacks ii		ether on the
búl	taleaves sp	aces (comma,	semicolon).
9.	There are	PRINT zones.	
10.	A(comma,	semicolon) cau	uses the com-
pu	ter to PRINT an item at	the next PRIN	T₁zone.
	. Write a program to fi		
	igth is 50 inches and will Have the computer PRI		
- (INCHES"		
	Have the computer PF	RINT the "WIDT	HIIS
c. 1	Have the computer Pl	RINT the "ARE	AIIS
	SQ. INCHES"		

REVIEW QUIZ #1

	2 1 int the matter with all used with MIC
1. To correct a typing mistake before you press the	8. List the math symbols used with VIC.
RETURN key, you can use the following key to erase	Multiply Add
the letter(s), word(s), or line	Divide Subtract
a. CRSR b. CRSR c. INST/DEL d. CLR/HOME	9. Express the following in scientific notation (i.e., a it would appear on Commodore 64) a. 5,000,000,000 ==
	b. 0.000005 ===
2. One simple way to delete a program line that you do not want is to first type the line number and then	c. 120,000,000,000 = d. 0.00000000000 =
press the following key	10. To clear memory of any program that may b
a. RUN/STOP c. RETURN b. SHIFT d. CLR/HOME	stored there, the command to use is a. STOP b. ERASE c. NEW d. RUI
3. To change or correct a program line after you have pressed RETURN, you must do the following (assume you cannot use cursor control keys).	1
a. Erase the line using the RESTORE key.	
b. Retype the line.	1
c. Back space the line.	
d. RUN/STOP the line.	
a. <u>Horvoror</u> the line.	2 3 4
4. To output your answers or results on the display,	
the following key word must be used in your program	Above is a BOX DIAGRAM of a computer. Place th
a. Input b. LET c. Output d. PRINT	correct number beside the words the boxes represen
	Memory Unit Processor Unit
5. When using a REM statement, sometimes you see	Qutput Unit Input Unit
the statement written as follows	
5 REM *** AREA OF RECTANGLE PROGRAM ***	
What are the *** used for in the statement?	12. Write a program to PRINT on separate lines
a. Multiplication c. Subtraction	a. Your name
b. Division d. Decoration	b. Your address
	c. Your telephone number
6. The statement 10 PRINT A will	
a. Print the letter A.	
b. Print the value of A.	13. Write a program to find the area of a rectangle
c. Print both the letter and its value.	length is 10 inches and width is 25 inches.
d. None of the above.	 a. Have the computer PRINT the "LENGTH IS INCHES"
7. List the order of mathematical operations. That is,	b. Have the computer PRINT the "WIDTH IS
if you have addition, subtraction, multiplication, and	INCHES"
division, which comes first, second, and so on.	c. Have the computer PRINT the "AREA IS SQ. INCHES"

Relational Operators and IF-THEN/GOTO Statements

i. Fill in the following ta	ble with the proper symbol
Meaning:	Symbol
a: Equal!	
b. Greater Than	
c: Less Than	
d. Is Not Equal To	
e. Less Than or Equal To	
f. Greater Than or Equal	То
0 Civer 4 - 5 D - 10	0 - 30
2. Given: A = 5, B = 10,	
	e (assume the next program
line is line(20):	0 10 0 11
Statement	Condition Branch to is (T OR: F)* (Line #1)*
a. 10 IF'A = B THEN 40	is (r On. r) (Line #1)
b. 10 IF A <> B THEN 50	
C. 10 IF A.> B THEN 60	
	100
e. 10 IF C <= (A + B) THEN	
f. 10 IF C'>= (A + B) THEN	190
g. 10 IF B > A THEN 100	
h. 10 IF B/A > C/A THEN 1	
i. 10 IF A'B <= A'C THEN	
j. 10 IF C/A = A'B THEN:1	
	he computer will execute the
next line in the program,	which would be Line 20.
3. The IF-THEN stateme	ent is known as a/an
branching statement.	THE TO THE OWNER AS AS AS A STATE OF THE OWNER AS AS AS A STATE OF THE OWNER AS AS A STATE OF THE OWNER AS A STATE OF THE OWNE
a. Unconditional	c. Indirect
b. Conditional	d. Direct
b. Contanional	d. Direct
4. If the conditions canno	ot be met in an IF-THEN state-
ment, the program will	
a. Stop	c. Branch to another part
	of the program
b. Continue to next line	d. GOTO beginning of
	the program
F The COTO statement	
5. The GOTO statement	is known as a/an
branching statement.	
a. Unconditional	c. Direct
b. Conditional	d. Indirect
6 If you have a program to	that continues to run because
	nch statement, what should
you do to stop the progra	
a. Type STOP	c. Press RUN/STOP key
b. Press RETURN key	d. Press SHIFT key
7 When you want to ou	itput something to the video
display, the key word in a	
a. OUTPUT	c, PRINT
b. GOTO	d. ENTER
8. Write a program to c	count to 10 by 1's using the
III - I CIETY SIGNETHERI	

The INPUT Statement

f. When you use an INPUT statement in your program, it causes the computer to stop and wait for input from the a. Display c. Keyboard b. Tape Recorder d. Memory	b. Which variable can be used for Line 30? c. Which variable can be used for Line 40? d. Which variable can be used for Line 50? D. D\$
2. When you use a trailing semicolon in a PRINT statement (that is, the semicolon is at the end of the line), it causes the computer to a. Leave a space between two PRINT lines. b. Hook two PRINT lines together. c. Leave a space for a number. d. Add a PRINT Line. 3. When you use an INPUT statement and RUN your program, what happens when the computer stops and waits for you to enter a number and you do not enter anything? a. The computer waits 10 seconds and continues. b. The program will just stay at the line until you take some action. c. An alarm will sound. d. An error will appear.	 5. If A\$ is used as a variable, it is called a
4. Study the following program lines and then answer the question. 20 INPUT "YOUR NAME":? 30 INPUT "YOUR AGE":? 40 INPUT "YOUR TELEPHONE NO.":? 50 INPUT "YOUR SCHOOL'S NAME":? a. Which variable can be used for Line 20? A. AS	9. To change or correct a program line after you have pressed RETURN, you must do the following (assume you do not have cursor control). a. Erase the line using the RUN/STOP key. b. Retype the line. c. Back space the line. d. RESTORE the line. 10. The key word to output on the display is

REVIEW QUIZ #2

1. To correct a typing mistake before you press the RETURN key, you can use the following key to erase the letter(s), word(s), or line a. CRSR b. CRSR c. INST/DEL d. RESTORE 2. One simple way to delete a program line that you do not want is to first type the line number and then press the following key a. RUN/STOP c. RETURN b. SHIFT d. CLR/HOME	 9. The statement: 10 PRINT "A" will a. Print the letter A. b. Print the value of A. c. Print both the letter and its value. d. None of the above. 10. You are running or executing a program and your output is too large for all of it to fit on the screen. The display continues to "roll" until it reaches the end. You can slow down the display by pressing the following key a. SHIFT b. RESTORE c. RUN/STOP d. CTRL
have pressed RETURN, you must do the following (assume you cannot use cursor control keys). a. Erase the line using the RESTORE key. b. Retype the line. c. Back space the line. d. RUN/STOP the line.	11. Examine the following program 10 LET K = 0 20 K = K+1 30 PRINT K; K12 40 IF K < 10 THEN 20 a. The program is called a program. b. Line 10 in the program sets the counter (K) to
4. To output your answers or results on the display, the following key word must be used in your program a. Input c. Output b. LET d. PRINT 5. In a computer program, the following statement is used 10 INPUT "YOUR AGE": ? What variable can be used for your age? a. AS b. B\$ c. 2A d. A	 c. Line 20 increments the counter (K). That means it 1 to the counter each time step 20 is executed. d. This program will loop how many times? e. Which line determines how high this program will count? f. Line 30 is the (INPUT, OUTPUT) statement and it will cause the screen to display the following: (Show what the output of this program will look like.)
6. In a computer program, the following statement is used 20 INPUT "YOUR NAME";? Which variable can be used for your name? a. A b. B c. A\$ d. A1 7. When using a REM statement, sometimes you see the statement written as follows 5 REM *** AREA OF RECTANGLE PROGRAM **** What are the **** used for in the statement? a. Multiplication c. Subtraction c. Division d. Decoration	
8. When you use the INPUT statement in a program, the computer will stop when it gets to that line and wait for a. An input from the tape recorder. b. A shift command. c. An input from the keyboard. d. An input from the disk.	12. Write a program that will PRINT the four times table from 1 to 5. That is, your output should look like the following 4:1 = 4 4:2 = 8 4:3 = 12 4:4 = 16 4:5 = 20 (Hint: Use the counting program.)

Using the FOR-NEXT...STEP Statements

1. Study the following program
10 FOR J = 10 TO 1 STEP-2
20 PRINT J;
30 NEXT J
a. The output of this program is
b. The semicolon in Line 20 causes the output to be
printed on the (same, next) line.
c. If in Line 10 we change the STEP-2 to STEP-3, the
output would then be
d. If in Line 10 we change the STEP-2 to STEP-4, the
output would be
e. FOR-NEXT is called a (conditional
unconditional) statement.
2. If the step in a FOR-NEXT statement has a negative
value, the counter is decremented, which means it is
value, are bearies to design of the mount of
3. If the step in a FOR-NEXT statement has a positive
value, the counter is incremented, which means it is
4. If the key word STEP is not used with a FOR-NEXT
statement, the counter is automatically increased by
each time.
5. Sometimes the FOR-NEXT loop is called a
(smart, dumb) loop; whereas a GOTO loop is called a
(smart, dumb) loop.
6. FOR and are always used as a pair.
7. Write a program using FOR-NEXT-STEP that wil
count to 100 by 10's.
8. Write another program using IF-THEN that wil
count to 100 by 10's.

Reading Data

 Study this short program and predict the output. DATA 121, 671, 531, 651, 791 READ A, B, C, D, E 	7. In a DATA statement, data elements are alway separated by a. Colons c. Commas
30 Print A; B; C; D, E	b. Periods d. Semicolons
2. Study this program and predict the output. 10 DATA 500, 400, 300, 200, 100 20 FOR N=1 TO 5 30 READ A 40 PRINT A	 8. The following is true about placement of DAT statements in a program a. They may appear anywhere in the program. b. They must be the first statement in the program. c. They must follow READ statements. d They must be the last statement in the program.
50 NEXT N	9. The READ statements work together t
Output is	input data into the computer.
Octpot to	a. GOTO c. INPUT
3. Study this program and predict the output.	b. IF-THEN d. DATA
10 READ X	
20 RESTORE	10. Data Lines are always read from
30 READ Y	a. Right to leftb. Left to rightc. Middle to leftd. Middle to right
40 RESTORE	b. Left to right
50 PRINT X, Y	11. If string values (words, letters, names) in DAT,
60 DATA 50, 60	statements include colons, commas, or blanks, yo
Output is	must
	a. Enclose these values in quotes.
4. Study this program and predict the output.	b. Enclose these values in parentheses,
10 DATA "JONES,A.B.", LEEDS, "METZ, BILL",	c. Enclose values in commas.
COMPUTER	d. Enclose values in semicolons.
20 DATA JORDAN, ALICE, TEACHER	12. Data items are read sequentially starting with
30 READ A\$, B\$, C\$, D\$, E\$	a. Last item in last DATA statement.
.40 PRINT A\$, B\$, C\$, D\$, E\$	b. First item in first DATA statement.
Output is	c. First item in first READ statement.
	d. Last item in last READ statement.
5. If there are more data elements than READ variables	bits assessment of the second
a. Computer stops.	13. The first time a READ is executed
b. OD Error indicated.	a The first value in the first DATA statement is read.
c. Some data elements are not read.	b. The last value in the first DATA statement is read.
d. None of the above.	c. The last value in the last DATA statement is read.d. None of the above.
6. If there are more READ variables than there are	14. The RESTORE statement is used
data elements	a. When data is to be read more than once in the sam
a. Out of data error indicated.	program.
b. Some data elements are not read	b When data is to be printed more than once.
c. BS error indicated.	c When data is to be erased.
d. None of the above.	d. None of the above.

Video Display Graphics

1. The Commodore 64 display has character positions. a. 3,000 c. 1,000 b. 5,000 d. 2,000	7. For TAB (N) and SPC (N), N can have a numerical value which ranges from to a. 1 to 1000 c. 0 to 255 b. 1 to 255 d. 0 to 1000
 The Commodore 64 display has	8. Using your Graphics Character Reference Charts or the Commodore 64 keyboard, write beside the graphic symbol the key you would press to display the symbol (assume SHIFT) or key is already pressed, as shown).
4. To use the right side graphics, you must also hold down thekey. a. RETURN c. SHIFT b. CTRL d.	a. Top-left corner b. Bottom-right corner c. Horizontal line (top segment) d. Horizontal line (bottom segment) e. Vertical line (leftmost segment) f. Vertical line (rightmost segment) g. Thin bar (top) h. Thick bar (bottom) i. "X" j. Cross
6. If you wanted to start printing your name five spaces from the left side of the display and also insert ten spaces between your first name and last name, you would use: a. 110 PRINT (5) "FIRST NAME", (10) "LAST NAME" b. 110 PRINT TAB (5) "FIRST NAME" TAB (10) "LAST NAME" c. 110 PRINT TAB (5) "FIRST NAME" SPC (10) "LAST NAME" d. 110 PRINT TAB (10) "FIRST NAME" TAB (5) "LAST NAME"	9. Although one line on the display is only 40 characters long, the Commodore 64 can handle up to characters using the "wrap around" feature. a. 255 b. 88 c. 100 b. 88 d. 200 10. Using Commodore 64 graphics might appear to be complicated at first but the key to understanding how to use Commodore 64 graphics better is a. Practice b. Practice c. Practice d. Practice

Arrays

	In array A 30, 45, 55,		the val	ues		
	equals:	65				
a. 3	Ø		C.	65 None of	thano	
b. 4						•
	Another noil Mistaten			imensioi Matrix	nai array	/ 15
	rray-2			Element		
3.	In a two-d	limensio	nal arra	y, H(2,3)	refers t	0
a. F	Row 3, col	umn 2	C.	Column Row 2, r	2, colur	nn 3
			u.	NOW 2, 1	OW 3	
a. ".	A(7) is rea A7"	ad	c.	"7-SUB-	Α"	
	A-SUB-7"		d.	"A-PARI	ENTHES	SES-7"
5.	The DIM	statem	ent lets	you se	t the d	epth or
DIM	nber of ele	ements	per dime	ension ir	n an arri	ay. If no
	wed is	r is asca,			TIBOT OT	
a. 5			c. d.			
b. 1						
	10 DIM B w element			-dimens	ional ar	ray B to
	0 to 2,3		C.	0,0 to 2,		
b. 2	2,2 to 3,3		d.	Ø,Ø to 3	,3	
	10 DIM C				sional a	rray can
	e sub elen) to 21	nents th		1 to 21		
	to 20			1 to 20		
For mat	question	s 8 thro	ough 10	, refer t	o the f	ollowing
H_	1	2	3	4	5	6
1	25	55	68	85	13	125
2	115	95	26	100	79	80
3	19	75	65	185	21	22
А	This matri	v has	ro	ws and		columns
a. 3		X 1145	C,	6,6		o o i a i i i i
b. 6	5,3		d.	3,3		
100	The conte	ent of H		0.5		
a. 1				65 95		
	If a DIM	1 statem			or the r	natriy it
WOL	ıld read					majori i
	O DIM H			10 DIM		
U.	io DIW H	ردرن	a,	10 DIM	(L(2,3)	

INT(X), ABS(X), and RND(X) FUNCTIONS

1. IN I (X) or integer function allows you to round o	IJ,
any number, large or small, positive or negative, into	a
whole number or integer. Find INT(X) for the following	9
X INT(X)
a. 0.6	_
b1.5.	_
c. 2.16	_
d, =.5;	=
e. 0 f. 3.456	_
g. 76.15	
h10.35	=
i. 7.95	
j7.85	_
2. Find the absolute value of the following number	rs
X:ABS(X	-
4.0	Ė
a. 12 b. 0	=
C. =12	-
d357	_
e. 3.5555	_
13.5555	=
g1,175	_
h0.125	
i. 1.01	=
j. 0.5789	=
3. RND(X) or random number function causes the computer to give you a surprise number a. If N = INT (10° RND (1) ± 1), then N can be an number between and b. If N = INT (100° RND (1) ± 1), then N can be an number between and c. IF N = INT (6° RND (1) ± 1) then N can be an number between and d. If N = INT (4° RND (1) ± 1) then N can be an number between and	יער ער יער
4. Random numbers are very useful for compute	er.
games because a random number is	
a. Logical c. Uniformed	
b. Unpredictable d. Ordered	
5. Write a simple program to generate a rando number between 1 and 10, and then let the user try guess the number. More specifically, your progra should do the following at a minimum. a. Cause the computer to generate a random numb between 1 and 10.	to m
b. Permit a guess of that number from the keyboard c Compare the random number with a guess an if the guess equals the random number, PRIN "Right On."	id,
d. If guess does not match the random number, PRIN "You missed it! Try again!"	1±

Subroutines

		ich line in the main program?
	The line before the GC	
	The last line in the pro	
	The line following the	
g.	The first line in the pro	y grani
2	Which statement is u	sed to call a subroutine?
2	GOTO 3000	c. GOSUB 3000
	RETURN 3000	d. IF-THEN 3000
υ.	WEIGHIN SPEE	G. W 1412 4 3000
3.	Study the following p	programiline.
		which subroutine would be
	ecuted?	men sacroamie mead de
	ON A GOSUB 1000, 2	000 3000 4000
a	2000	c. 3000
	4000	d. 1000
D.	4000	G. 1889
4.	To keep the main pr	ogram from "crashing into"
		subroutines an extra time.
	e use a/anst	
a.	GOTO	c. END
b.	RETURN	d. GOSUB
G.	MC. Guille	6. 00303
		ke ON-GOTO except control
br	anches to a(n)	 specified by line numbers
in	the line number list.	
	Main program	c. GOTO statement

For Questions 6 through 10, study the following pro-

20 INPUT "ENTER THREE NUMBERS": N1 N2 N3

gram and then answer the questions

10 REM ON-GOSUB DEMO

d. IF-THEN statement

b. Subroutine

1 When a RETURN is reached in a subroutine it

30 NPUT"1=AVERAGE, 2=SUM":K 40 IF K < 1 OF K > 2 THEN 30 50 ON K GOSUB 1000 2000 60 END 1000 T=N1+N2+N3 1010 A=T/3 1020 PRINT"THE AVERAGE OF THE THREE NUMBERS": N1: N2: N3: "IS" ; A 1030 RETURN 2000 S=N1+N2+N3 2010 PRINT THE SUM OF THE THREE NUMBERS":N1:N2:N3: "IS" IS 2020 RETURN 6. If one of the numbers input in Line 20 is 0, the next line executed is c. 20 d. 60 a. 30 b. 50 7. What is the next line executed if K = 3 in Line 40? a. 20 c. 30 d. 60 b. 1000 Line 1030 passes control to Line a. 2000 c. 60 b. 10 d. 1000 9. Line 2020 passes control to Line a. 1000 b. 30 10. What line protects the subroutine from the main program? a. 1000 c. 60 b. 2000 d. 10